

APPARATUS AND METHOD FOR BUS POWER
MEASUREMENT IN A DIGITAL SIGNAL PROCESSOR

This application claims the benefit of U.S. Provisional Application No.

5 60/299,016, filed June 18, 2001; and U.S. Provisional Application No. 60/299,023, filed
June 18, 2001.

Related U.S. Patent Application

10 U.S. Patent Application (Attorney Docket *TL-33148*), entitled APPARATUS
AND METHOD FOR CENTRAL PROCESSING UNIT POWER MEASUREMENT IN
A DIGITAL SIGNAL PROCESSOR, invented by Gary L. Swoboda, filed on even date
herewith, and assigned to the assignee of the present application is a related application.

15 **Background of the Invention**

1. Field of the Invention

20 This invention relates generally to digital signal processing units and, more
particularly, to power consumption of the buses found in digital signal processor units.

2. Background of the Invention

25 The digital signal processor and related devices have found increasing application
in portable apparatus, such as cell phones, wireless internet devices, etc. The power
consumption is a critical parameter for portable apparatus. The power consumption
determines the size of the battery and the time between recharging the battery, key
parameters in the portability of devices.

30 However, the power consumption parameter has several variables. The hardware
implementing the device can, for example, be designed to run with minimum power